

Chapter 1 Essentials of Geometry

1-1 Identify Points, Lines, and Planes

point location; no dimension; no thickness



Sep 10-2:17 PM

line made up of points; two dimensions; infinite in both directions; no thickness

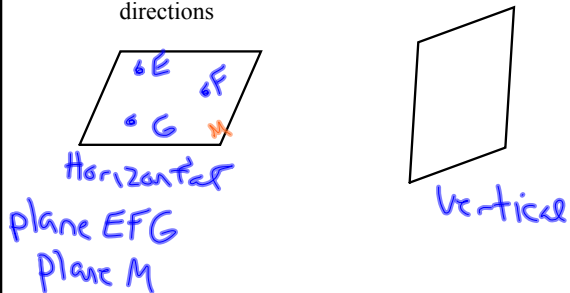


collinear points--points on the same line



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plane flat surface; two dimensions; infinite in all directions



coplanar points-- points on the same plane

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line segment--has 2 endpoints



ray--one endpoint

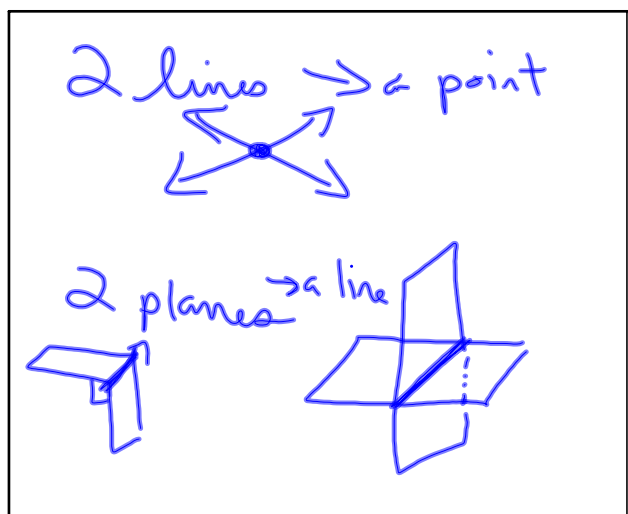


opposite rays

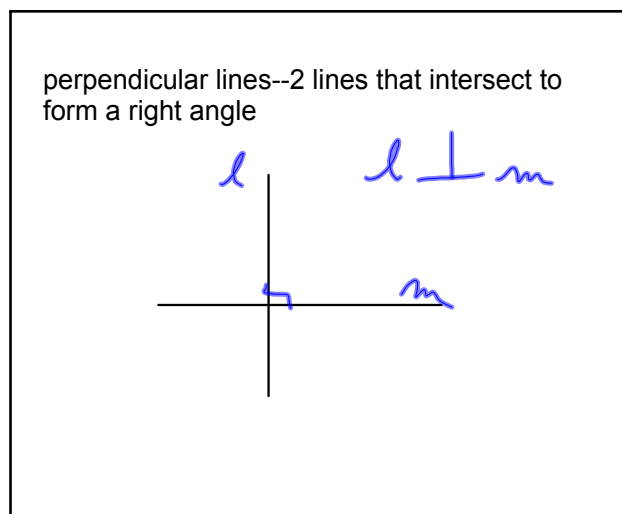


intersection--set of points that the figures have in common

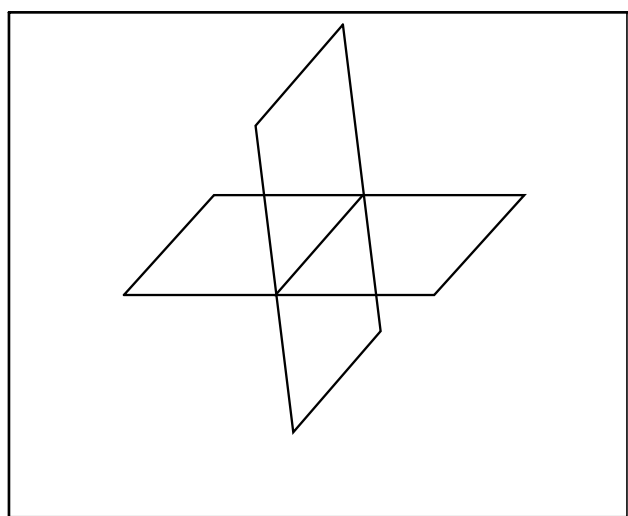
Jun 19-12:52 PM



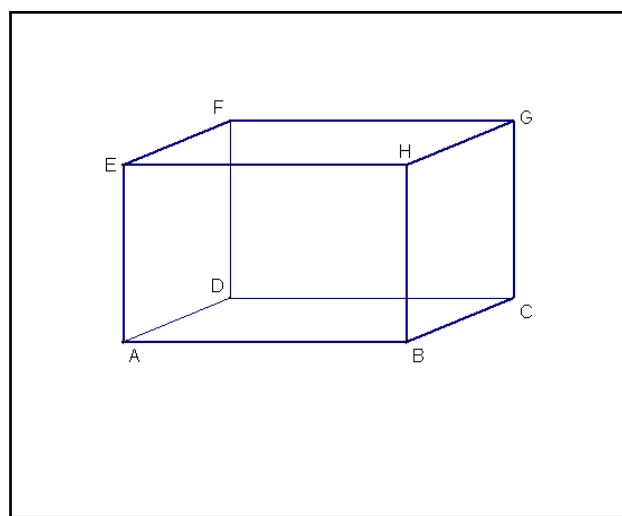
Sep 7-8:55 AM



Sep 6-9:57 AM



Sep 10-2:27 PM

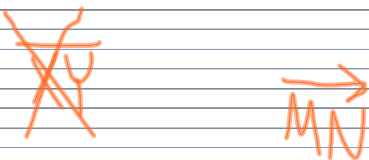


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Space--set of all points

Sep 10-2:31 PM

white erase boards



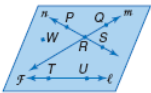
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Sep 7-9:08 AM

Refer to the figure.

- 13. Name a line that contains point  $P$ .
- 14. Name the plane containing lines  $n$  and  $m$ .
- 15. Name the intersection of lines  $n$  and  $m$ .
- 16. Name a point not contained in lines  $\ell$ ,  $m$ , or  $n$ .
- 17. What is another name for line  $n$ ?
- 18. Does line  $\ell$  intersect line  $m$  or line  $n$ ? Explain.



plane  $F$

Jun 19-1:00 PM

Homework

p 5-8

#s 1, 3-6, 8-11, 17-24, 43

Sep 10-2:33 PM